



REPLACEMENT SHEET

Title: APPARATUS FOR VISUALIZING INFORMATION IN A
DATA WAREHOUSING ENVIRONMENT

Docket No.: HHPI-01000US2

Appl. No.: 09/483,182

Filed: January 13, 2000

Applicant: Li-Wen Chen

Attorney: Paul A. Durdik

Phone: (415) 362-3800

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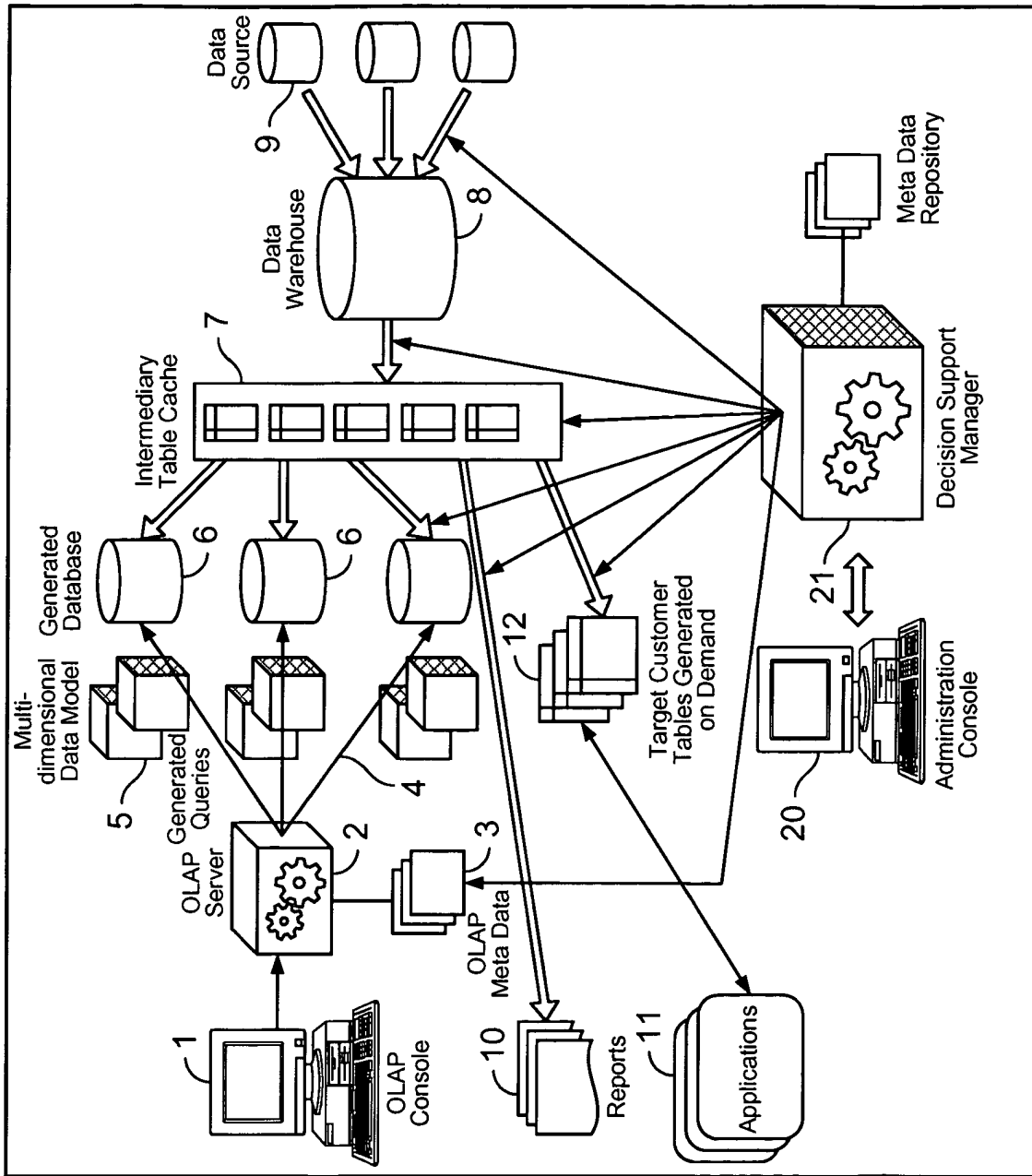


FIG. 1A

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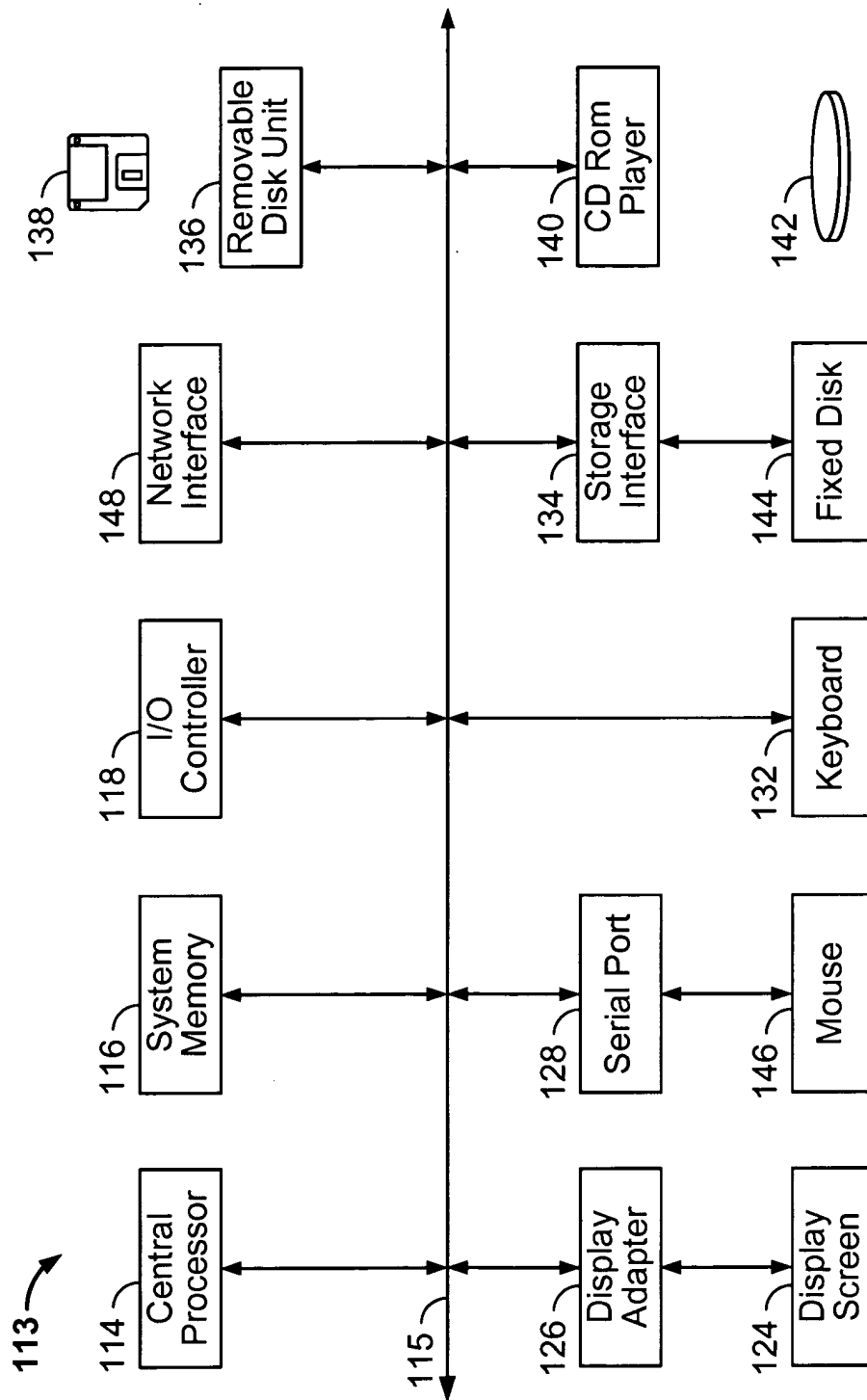


FIG. 1B

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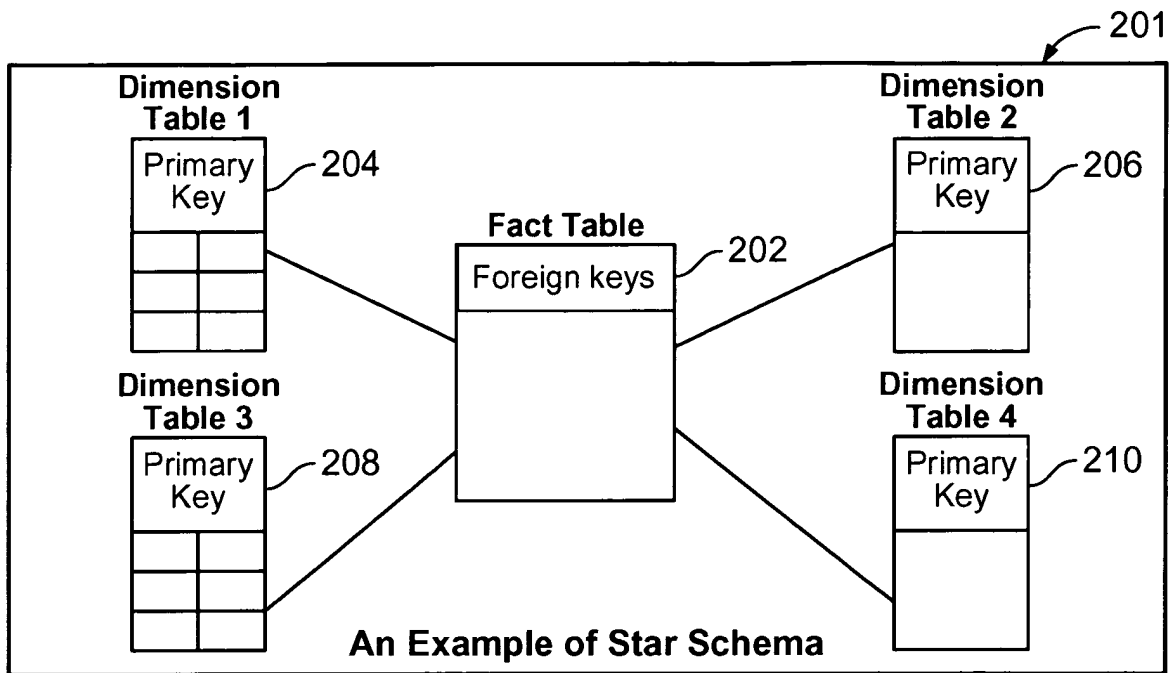


FIG. 2A

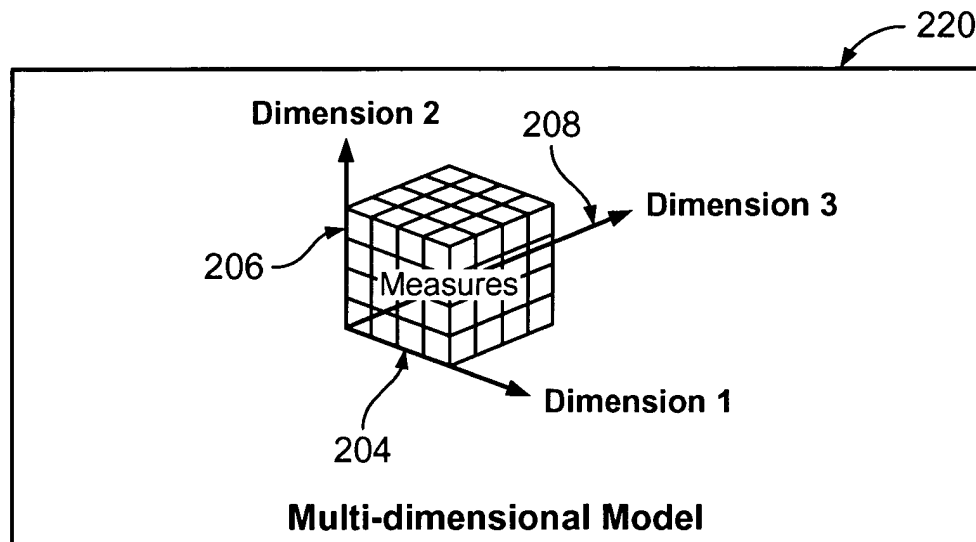


FIG. 2B

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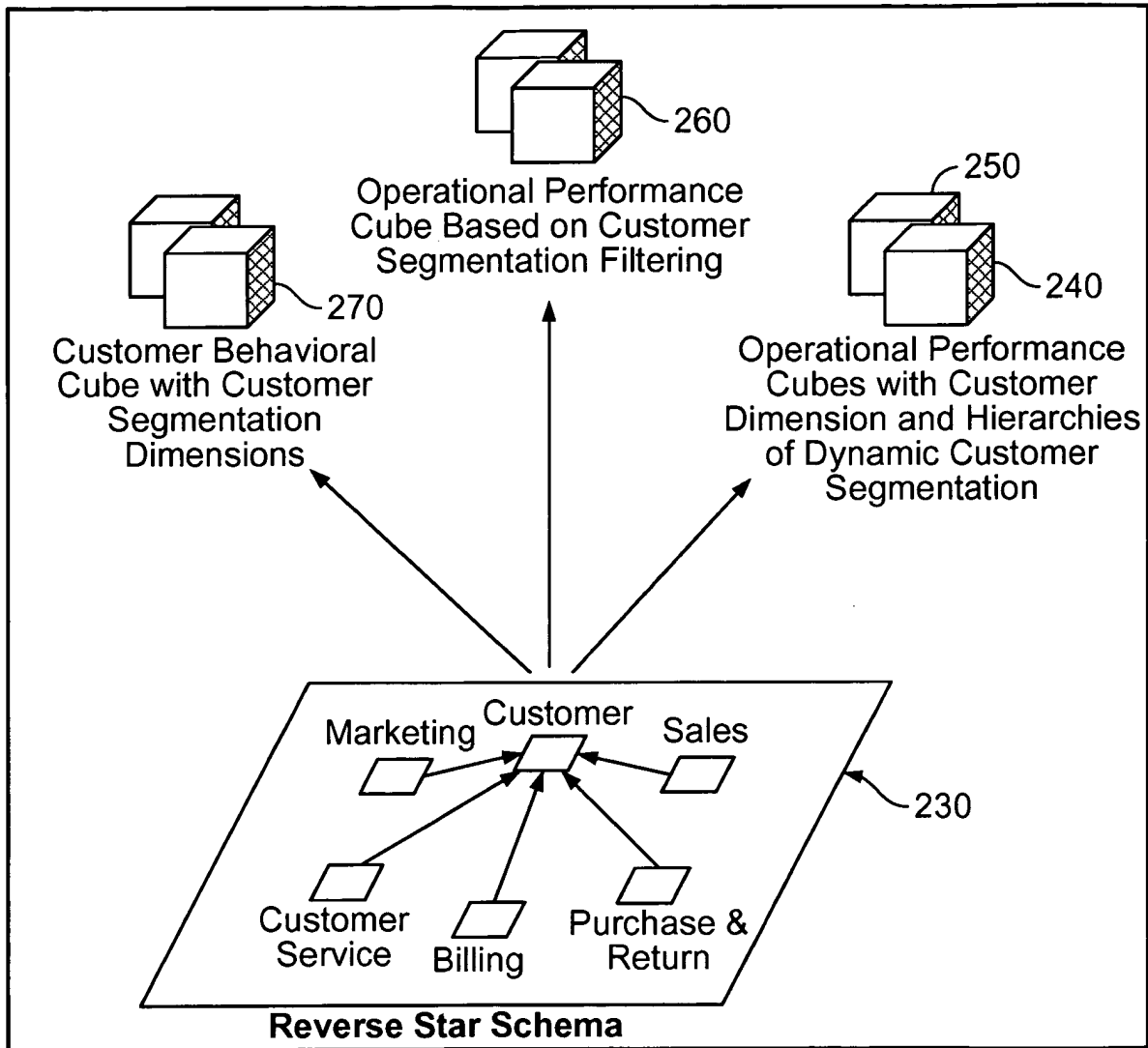


FIG. 2C

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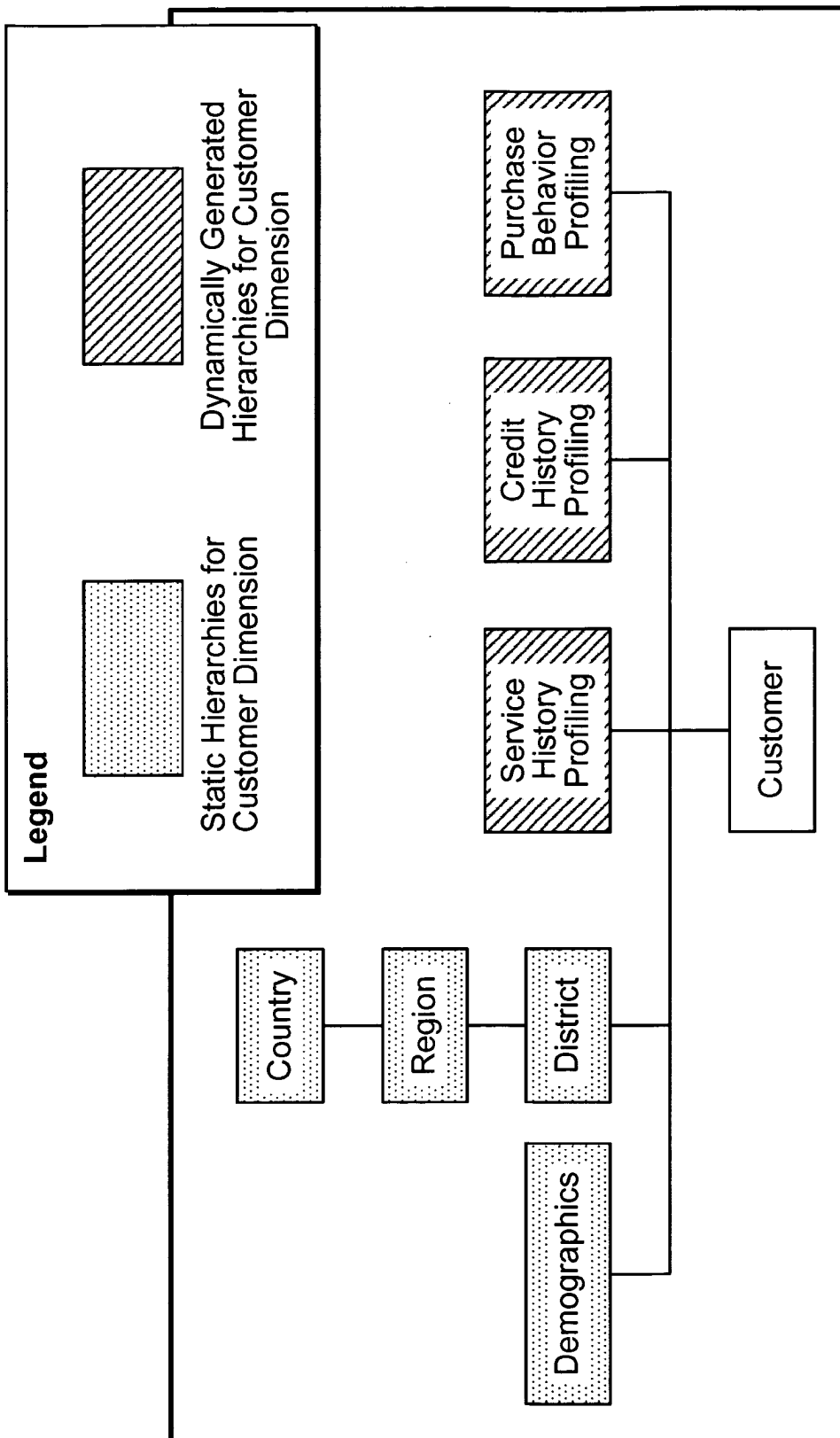


FIG. 2D

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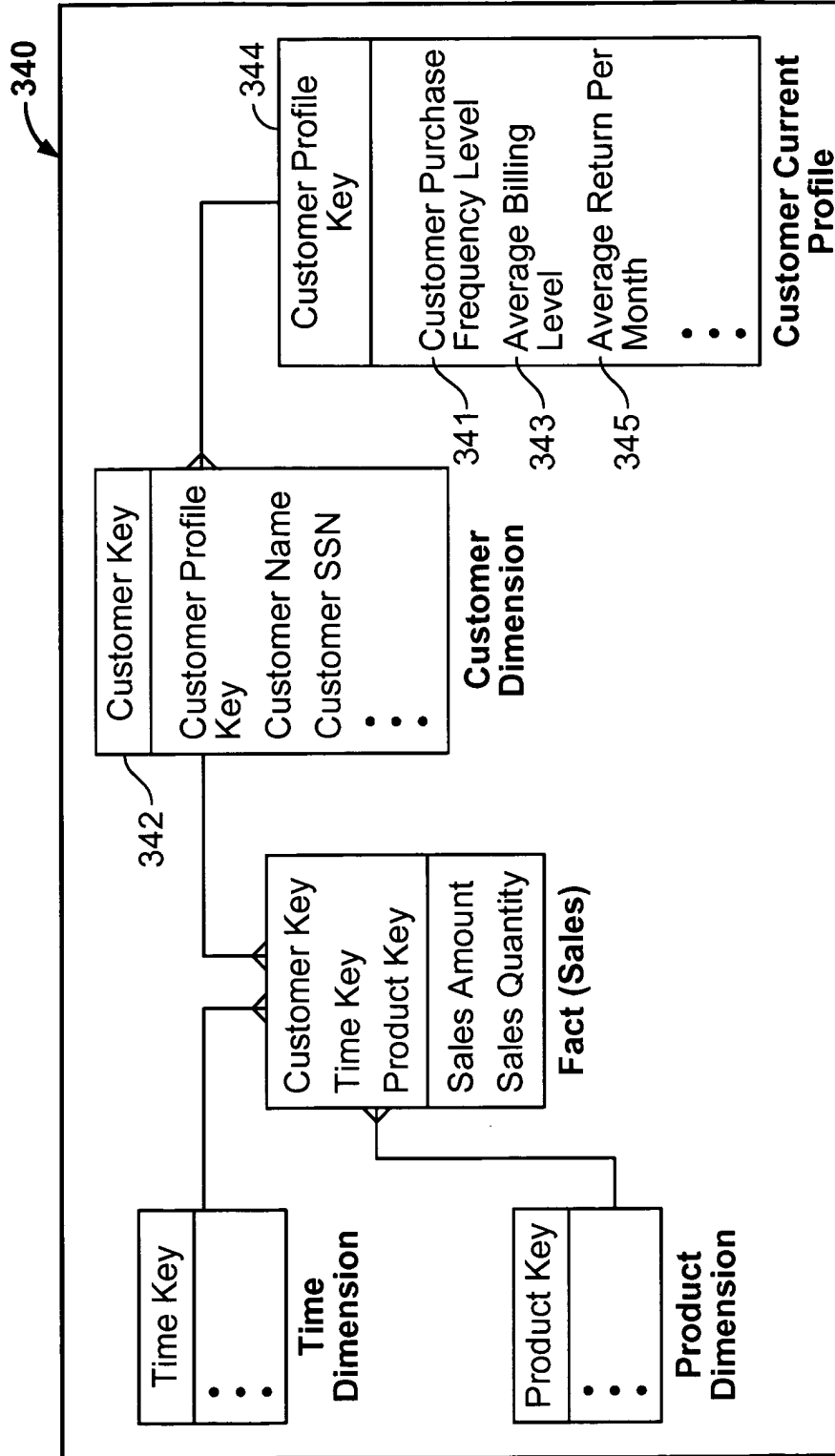


FIG. 3A

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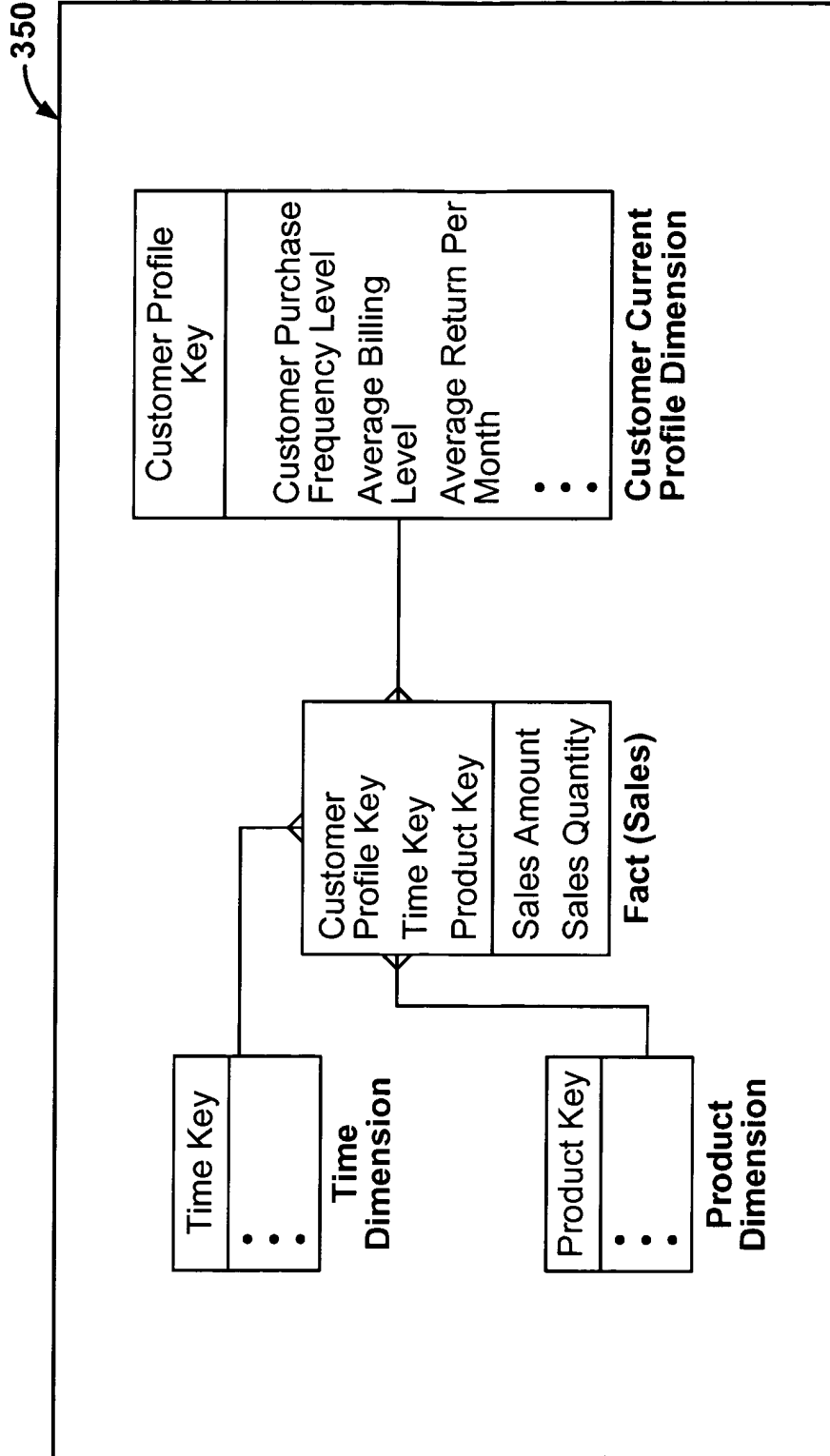


FIG. 3B

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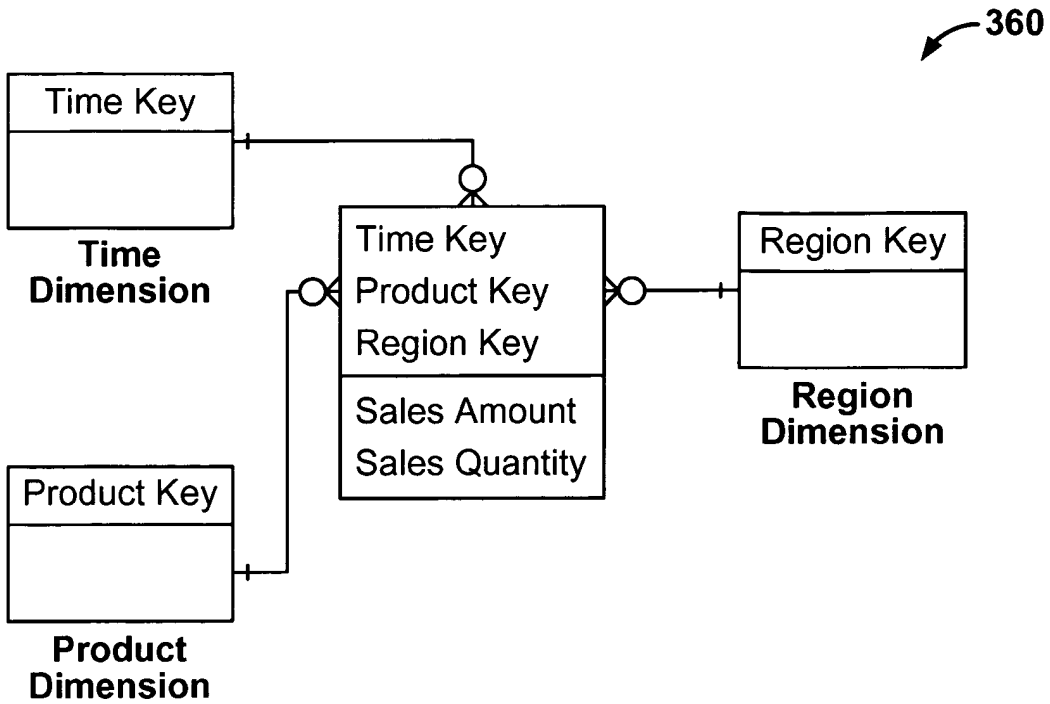


FIG. 3C

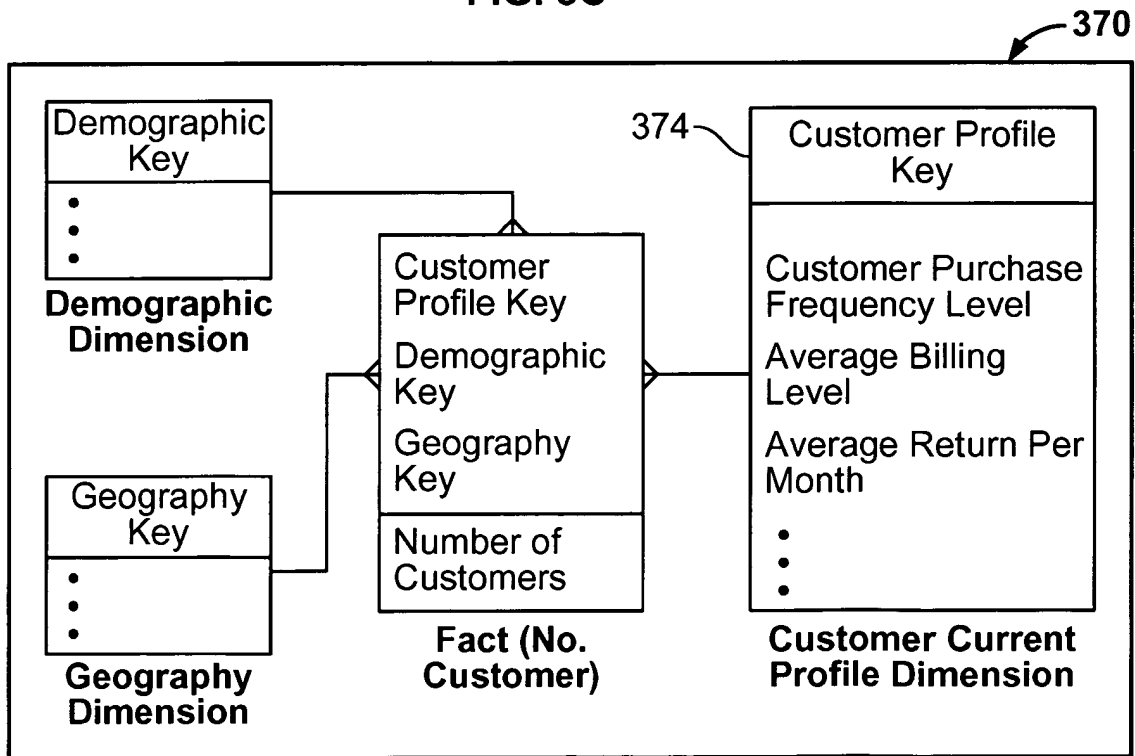


FIG. 3D

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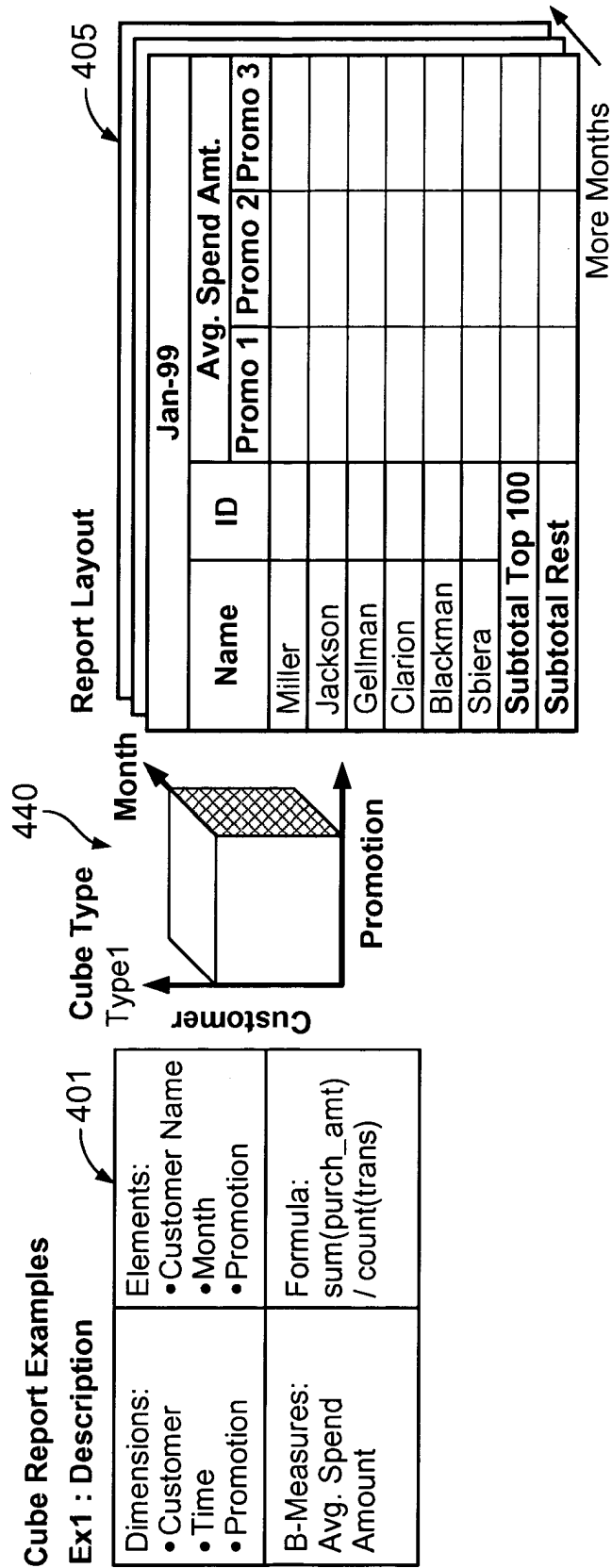


FIG. 4A

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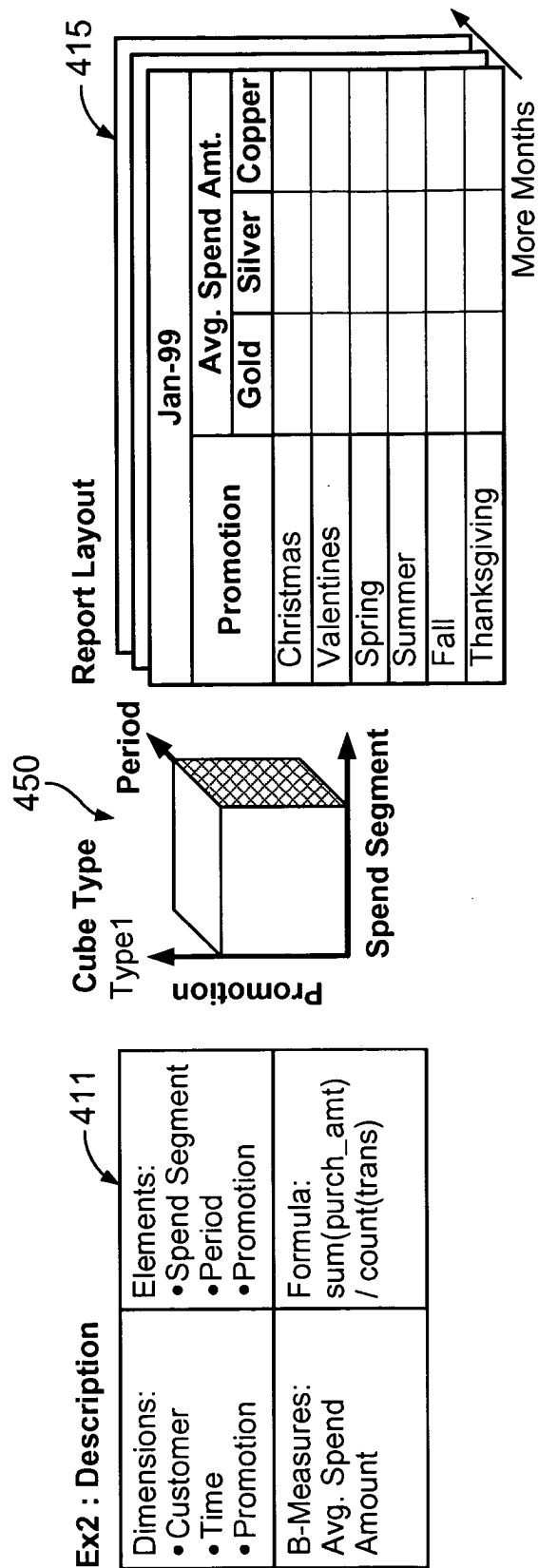
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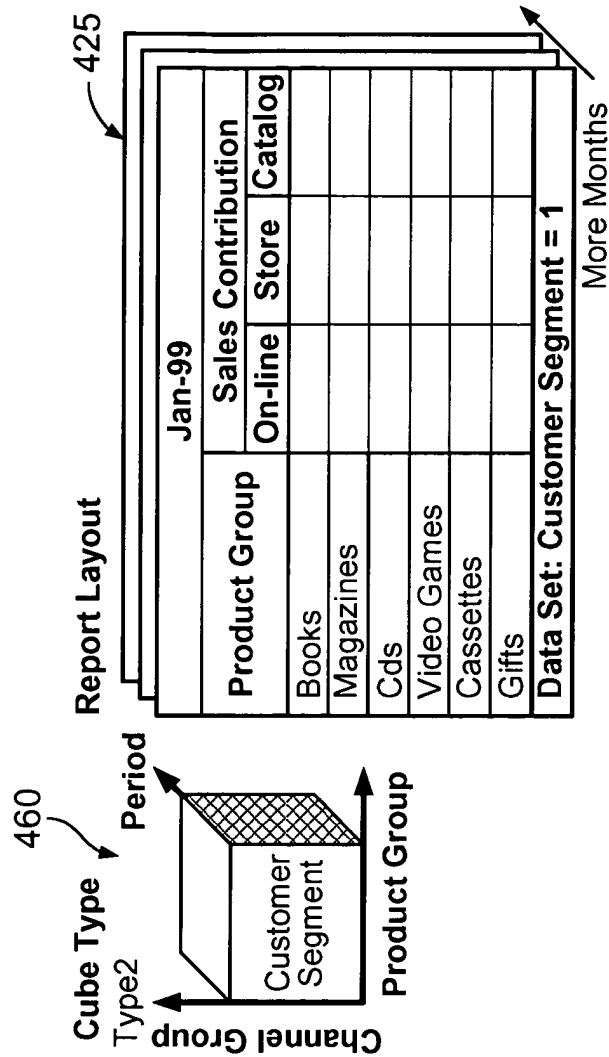


FIG. 4C

Ex3 : Description

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Dimensions: • Channel • Product • Time	Elements: • Channel Group • Product Group • Period
B-Measures: Sales Contribution	Formula: sum(purch_amt) Filtered / sum(purch_amt)
Filter Dimension: Customer	Filter Elements: Customer Segment

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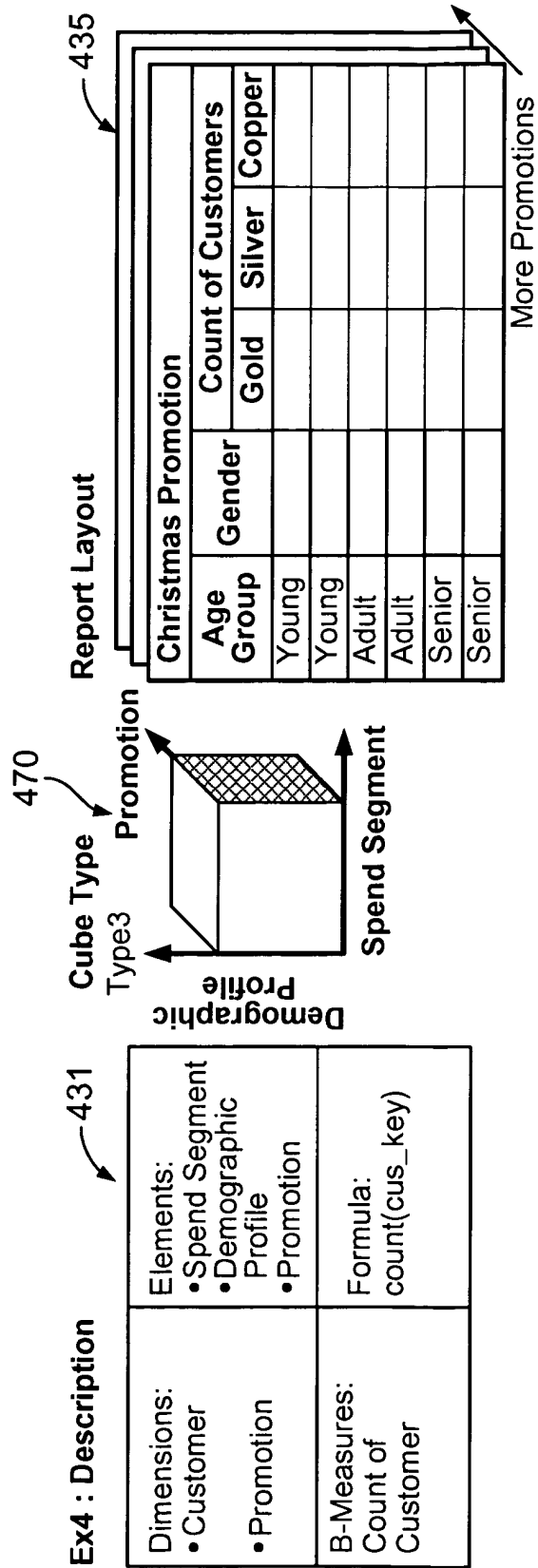
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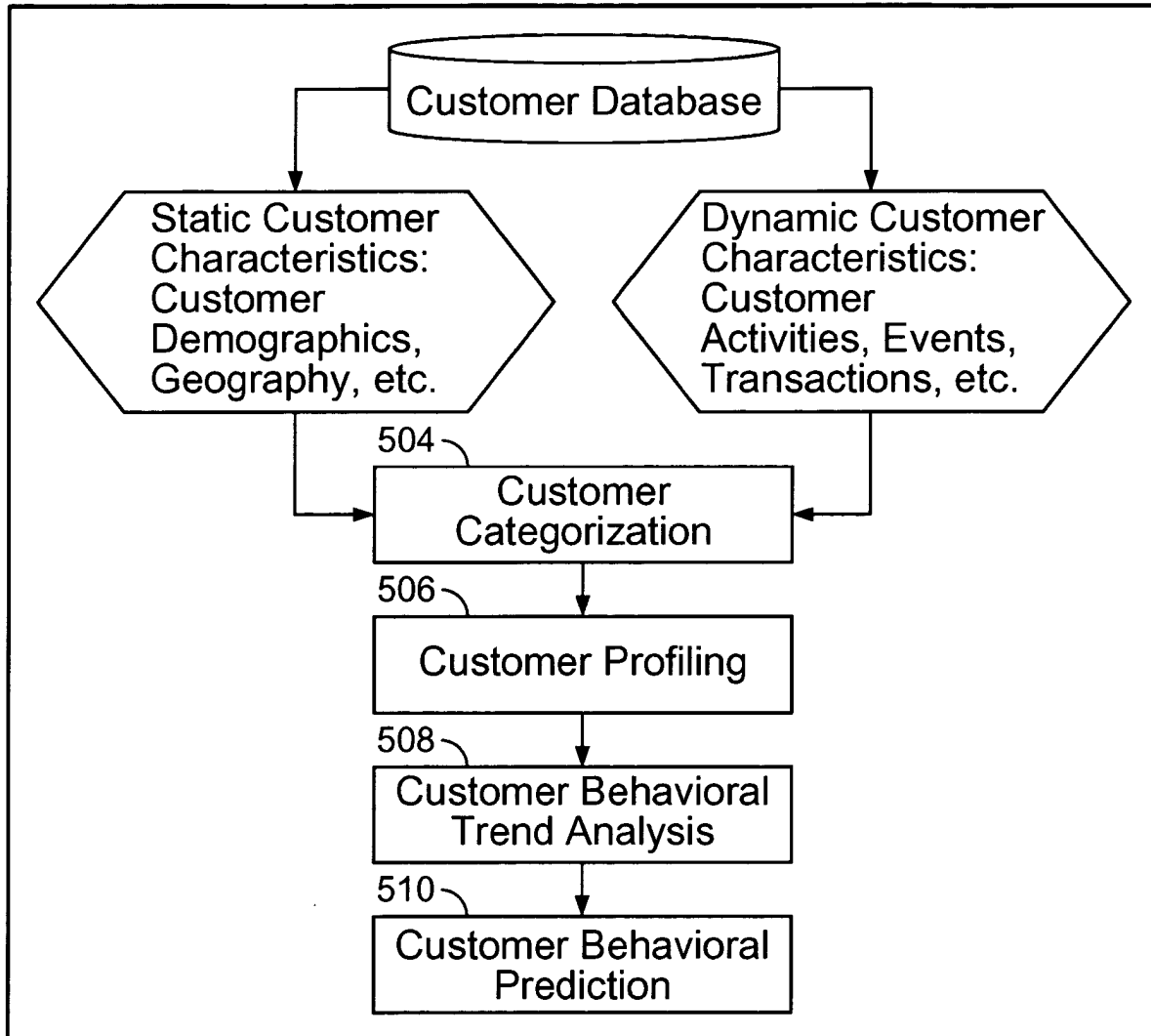


FIG. 5A

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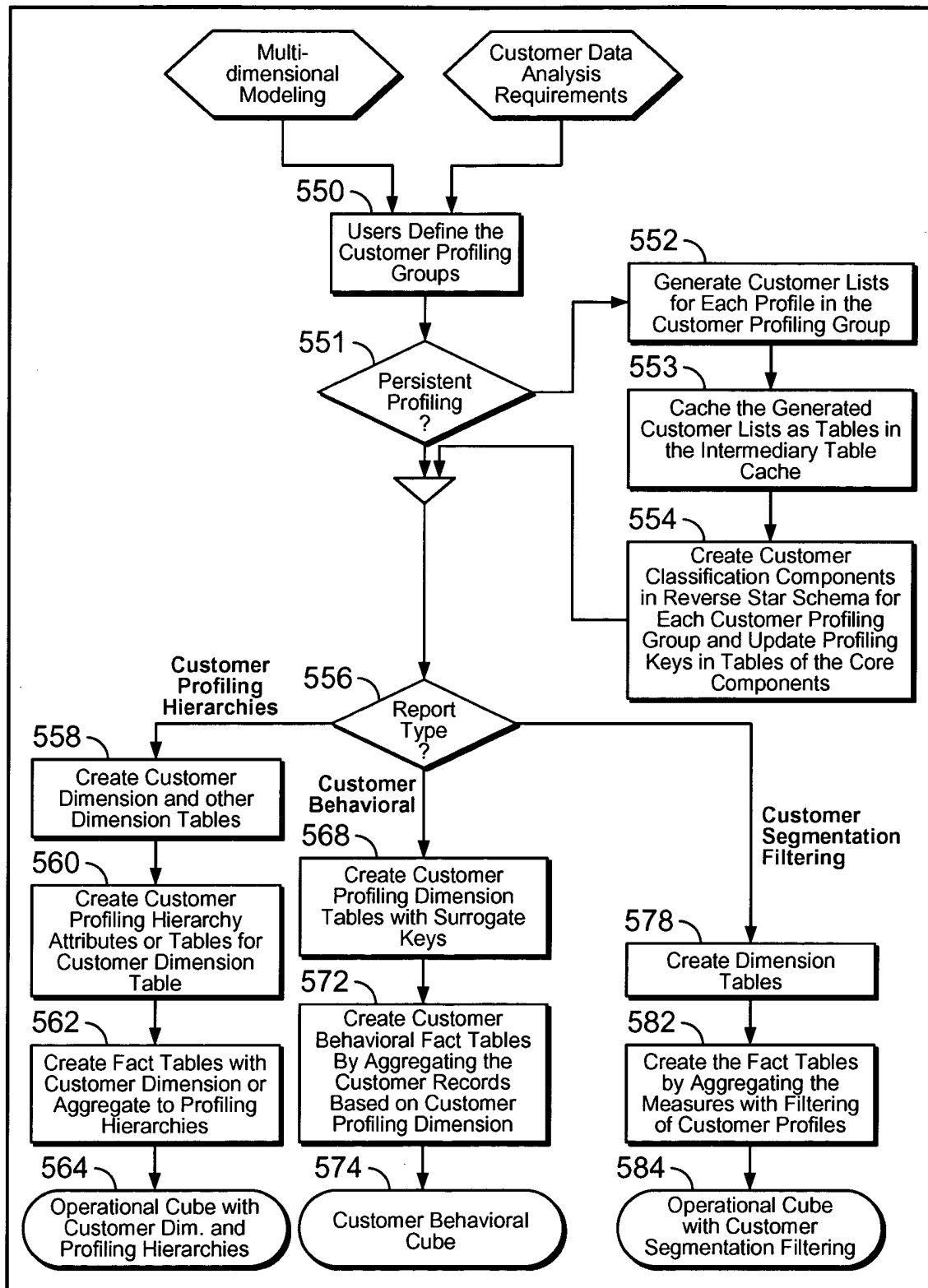


FIG. 5B

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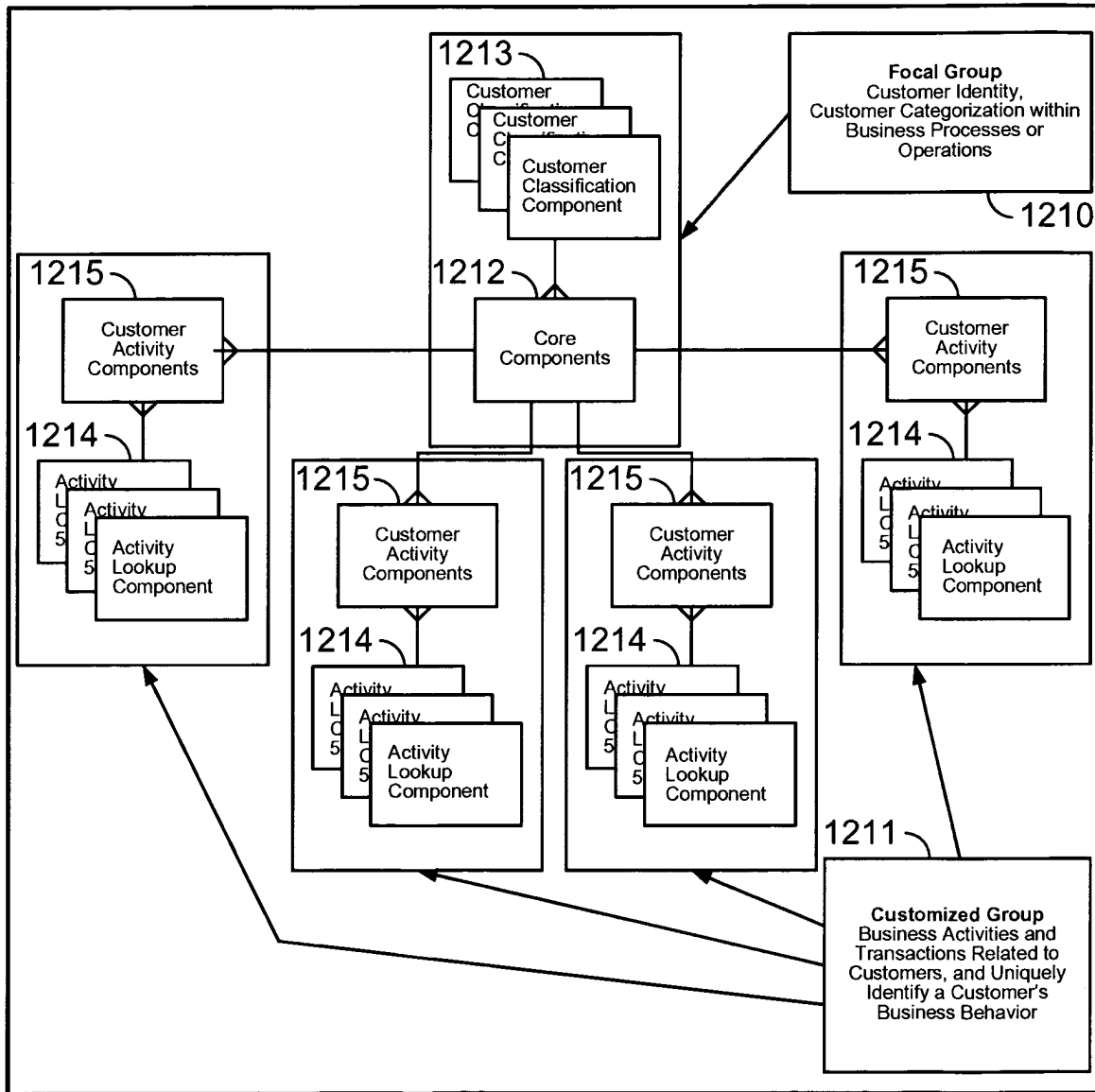


FIG. 6B

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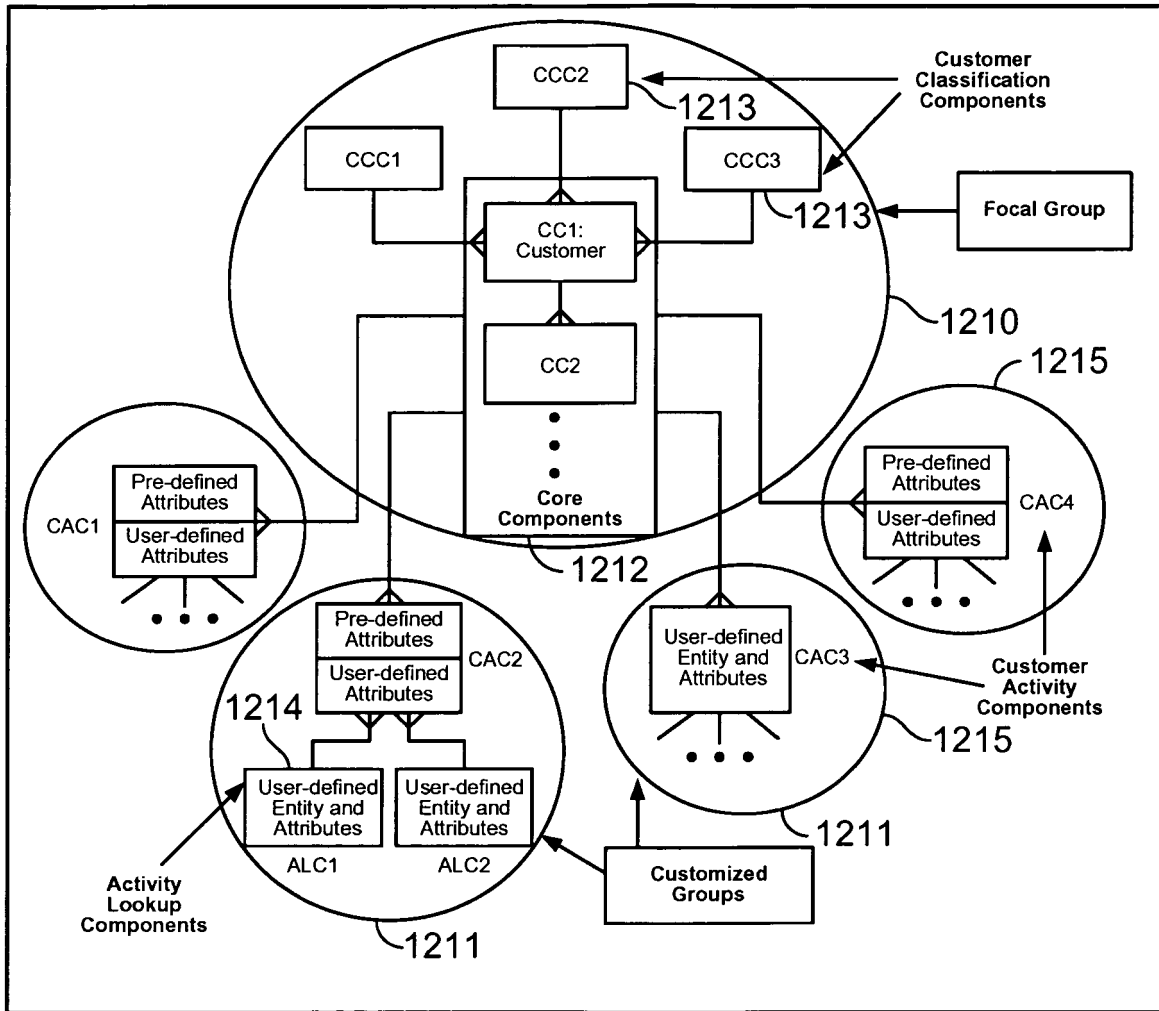


FIG. 6C

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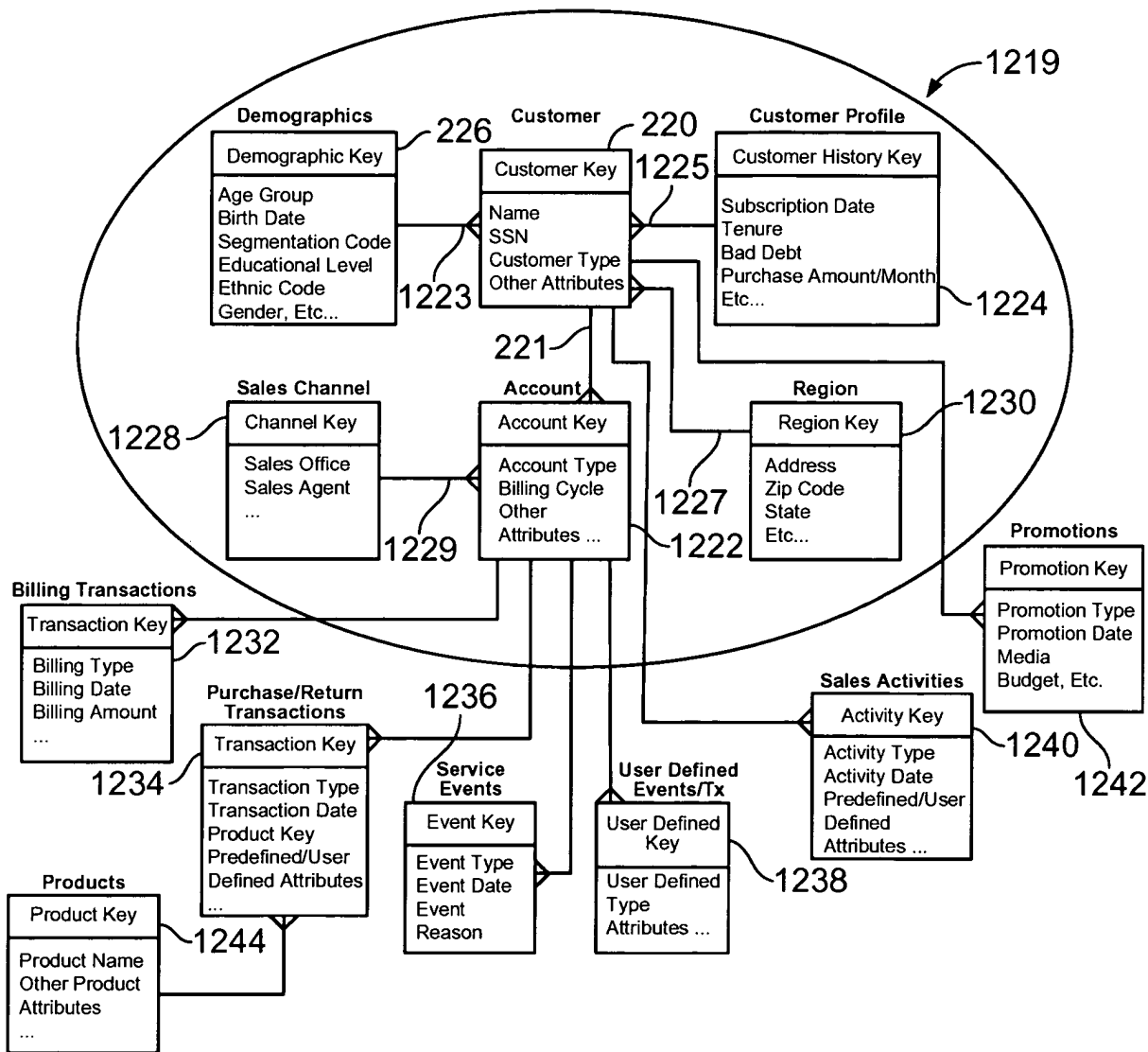


FIG. 6D